9455

Diag. Cht. No.1244.

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey HYDROGRAPHIC

Field No. AHP-40-2-74

Office No. H-9455

LOCALITY

StateFLORIDA

General Locality EAST COAST

Locality ... VICINITY OF MATANZAS INLET

1974

CHIEF OF PARTY

F. T. Swith

LIBRARY & ARCHIVES

DATE 7/1/764

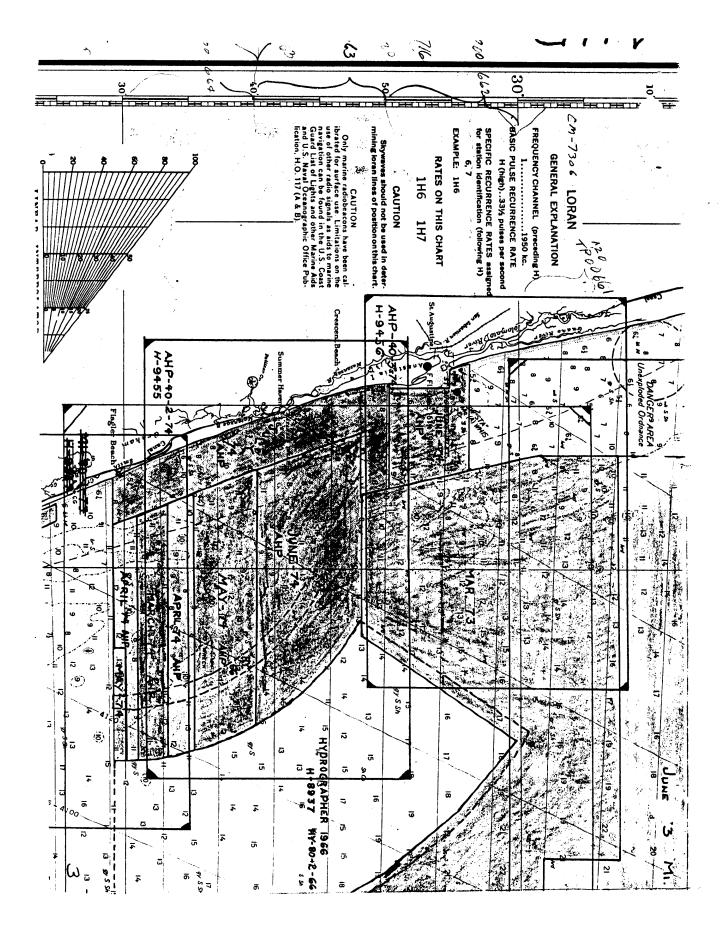
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HYDROGRAPHIC TITLE SHEET	
	н-9455
NSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, lled in as completely as possible, when the sheet is forwarded to the Office.	FIELD NO. , AHP-40-2-74
State Florida	1 40 2 14
General locality East Coast of Matanzas Inle Locality St. Augustine	
Scale 1:40,000 Date of sur	
Instructions dated March 26, 1973 Project No	OPR-1136-7116-73
Vessel NOAA Launches 1255 and 1257	
Chief of party LCDR Fidel T. Smith Surveyed by LCDR J. Rolland, LT D. Yeager, LT	TO P Dis-
Soundings taken by echo sounder, Mak is a typole Raythaon DE-7	
aphic record scaled by Digitized and scanned by	launch personnel
Graphic record checked by Launch Officers and Surve	y Technicians
Protracted by Gemplot CALCOMS 1018 Automa	ated plot by EOFAMC — CALCOMP 6
Verification by L. G. Cram	<u> </u>
Soundings in X MANNAN feet at MLW XXXXX	
REMARKS: Changes in red by L.G.C (AMC)	
Applied to stell 10/7/2	6
- Sist	



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DESCRIPTIVE REPORT(H-9455)

A. PROJECT

This survey was accomplished under the following Project Instructions:

OPR-436-746-73 Coasts of Georgia and Florida dated March 26, 1973.

Change #1: Supplement to Instructions dated May 3, 1973.

Change #2: Supplement to Instructions dated May 17, 1973.

B. AREA SURVEYED

The area surveyed is south of St. Augustine Inlet, Florida between Latitudes 29° 33! N and 29° 50! N. The survey extends from the 2 fathom contour on the inshore end to the approximate 14 fathom contour offshore (approximately 20 miles offshore).

The survey was accomplished between April 17, 1974 and July 30, 1974.

The survey junctions with the following contemporary surveys:

H-8937, 1:80,000, 1966

H-9371, 1:40,000, 1974

H-9367, 1:80,000, 1966

C. SOUNDING VESSEL

NOAA Launch 1255(Hi-Speed Launch) and NOAA Launch 1257(Slo-Speed Launch) accomplished all sounding on this survey. All records are annotated with vessel number.

D. SOUNDING EQUIPMENT

The following equipment was used by Launch 1257 for all soundings taken on this survey:

Raytheon Fathometer Model DE 723, SN 37024

Raytheon Digital Depth Monitor Model DE 723-41, SN 37016

Raytheon Electronic Cabinet Unit Model DE 723-42, SN 1910

The following equipment was used on the Days indicated for sounding by Launch 1255 on this survey:

Days 107 to 117

Raytheon Analog Recorder Mod. DE 723D, Serial No. 37019

Raytheon Digital Depth Monitor, Mod. DE 723D, Serial No. 1045

Raytheon ECU, Mod. DE723-D, Serial No. 2132

Days 120 to 211

Raytheon Analog Recorder, Mod. DE 723D, Serial No. 2934
Raytheon Digital Depth Monitor, DE 723D, Serial 1045
Raytheon ECU, Mod. DE 723D, Serial 2132

Velocity Corrections were determined by a combination of Bar Check Data and Beckman TDC observations.

Depths on this survey range from 6 to 136 feet.

E. SMOOTH SHEET

The smooth sheet will be plotted at the Atlantic Marine Center, Norfolk, Virginia.

F. CONTROL

Control for this survey was by Hastings Raydist operating in the Range-Range mode. Both vessels operated from the same set of shore stations. Launch 1257 used a 1st party system aboard and Launch 1255 operated with a 4th party system. No difficulties or problems occurred with the system during this survey. NOAA Launch 1257 operated on a frequency of 3306.400 KHZ. NOAA Launch 1255 operated on a frequency of 3306.520 KHZ.

Two sets of stations were used to control the survey. For operation between Days 107 and 180 the stations were located as follows:

Left Station Flag 1973

Red Raydist Model AA60 SN 54

Lat. 29° 29' 22.61"

Long. 81° 07' 57.11"

Right Station Signal 585

Green Raydist Model AA60 SN 119

Lat. 29° 50' 40.54"

Long. 81° 15' 56.98"

For operation between Days 189 and 211 the stations were located as follows:

Left Station Palm Raydist 1974

Red Raydist SN 54

Lat. 290 28' 35.256"

Long. 81010: 52.216"

Right Station Deltona Raydist 1974

Green Raydist SN 119

Lat. 29° 46' 50.817"

Long. 81° 18' 30.545"

All stations and calibration signals were located by 3rd order Traverse methods by Mr. Jim Shea of the Atlantic Marine Center, Operations Division.

The position of signal 585 was located by the Field Party with a short Traverse using only one angle and distance. See Horizontal Angle Volume Number 1 for original data.

Triangulation Stations were used for calibration when available.

Calibration was by 3-point sextant fix. Check angles were used if enough people were available. Otherwise at least one object was changed during any one series of fixes.

G. SHORELINE

There is no shoreline on this survey. No photo control or manuscripts were provided. Sounding lines were run as close to shore as conditions would permit. In all cases the 12 foot contour is adequately delineated which was in accordance with Project Instructions. Shoreline was applied to the smooth sket. TP-00663 & TP-00664

H. CROSSLINES

Crosslines were run to the extent of 8.4% of the principal system of sounding lines. Agreement is excellent, 0 to 1 foot in most cases, 2 feet in a few. Anything more than two feet can be attributed to relatively steep slopes in the immediate vicinity of the disagreement.

I. JUNCTIONS

After applying velocity corrections to the depth on the boatsheet, the soundings agree generally within 2 feet with the soundings from H-8937. Most soundings agree within 2 feet of those from H-9367 before applying velocity corrections, and it has been assumed that the depths taken from H-9367 had not yet had velocity corrections applied either.

J. COMPARISON WITH PRIOR SURVEYS

Presurvey review item number 32 was developed and appears to be about 200 meters in diameter, dropping from depths of 56 to 58 feet to a maximum of 155 feet at its center.

There appears to be a slight elongation of this depression in the Northwest - Southeast direction.

The fathogram was examined for indications of the 28 foot depth described in Presurvey Review Information Item number 34. No evidence of this item was found.

Pre-Survey Review Items

Pre-survey item no. 35: The charted wresk at Lat. 29°35'56" Long. 80°54'06" listed as an information item was not found. The normal system of two hundred meter spacing was split to one hundred meters. In addition a buoy was placed at the charted location and a series of concentric patterns run at reduced speed in the area for a period of approx. 2 hours. The shoalest sounding in the vicinity becomes 64 ft. (with the addition of velocity corrections).

Pre-Survey Item 36: The charted wreck at Lat. 29°34'00" Long. 81°09'00" listed as an information item was not found. The search for this item was the same as was done for item #35. Least depth in area becomes 50 ft. with addition of velocity correction.

Dashed-Circled items:

The charted 60 ft. sounding at Lat. 29°33'48" Long. 80°59'03" does exists. A sounding of 57 ft. was found at the charted location, with the addition of velocity corrections this becomes a 60 ft. sounding.

The charted 58 ft. sounding at Lat. 29°34'24" Long. 80°53'30" probably does not exist. A raw sounding of 57 ft. was found 100 meters west of the charted location. This becomes 60 ft. when velocity corrections are applied and is adequate for charting.

The charted 58 ft. sounding at Lat. 29°34'50" Long. 80°53'56" was not found. The shoalest sounding in the area becomes 60 ft. with additions of velocity corrections. No search outside of the regular system of sounding lines was made.

The charted shoal with a least depth of 56 ft. at Lat. 29°34'44" Long. 80°49'56" does exist. Least depths in the area are 39 ft. after velocity corrections are applied. In addition, the shoal seems to have assumed a more pronounced linearity in the north-south direction than the northeast-southwest direction charted.

The charted sounding of 60 ft. at Lat. 29°36'25" Long. 81°03'51" probably exists. A 61 ft. sounding (after corrections applied) was located 200 meters south of the charted item. Present depths adequate

The 59 ft. charted sounding at Lat. 29°37'14" Long. 81°03'36" does exist. A sounding of 50 ft. was obtained by Launch 1255 less than 100 meters Northeast of the charted location. With corrections this becomes 59 ft. The charted 53 ft. sounding at Lat. 29°37'42" Long. 81°05'28" probably exists. An uncorrected sounding of 52 ft. was obtained less than 100 meters southeast of the charted item. With corrections applied this becomes 54 ft.

All dashed-circled items were found to agree within 3 feet applying velocity corrections except the following:

- 1. The charted 60 ft. depth at Latitude 29° 41.5' North, Longitude 81° 06.4' West is in the area of 66 foot depths obtained during this survey.

 Disregard 60 considered dispress
- 2. Near Latitude 29° 41.0! North, Longitude 81° 08.2! West, the depths determined from this survey are 64-65 feet. The charted depth in this area is 51 feet. SI considered nonexistent.

K. COMPARISON WITH CHART

Except as noted above, comparison with C&GS 1244, 6th Edition, August 4, 1973 was generally good. Some minor discrepancies were found; however, a 41 foot depth was obtained during this survey at Latitude 29° 48.9' North, Longitude 81° 09.5' West. This depth is not shown on the chart. Water depths within a semicircle having a radius of 1½ miles, centered about Butler Beach, have shoaled 2-4 feet. The charted wreck at Latitude 29° 47.0' North, Longitude 81° 15.1' West was not found in the regular system of lines and no further search was made. The area should be wire dragged to prove or disprove its existence.

L. ADEQUACY OF SURVEY

This survey is complete and adequate to supersede prior surveys for charting.

M. AIDS TO NAVIGATION

There are no fixed or floating aids to navigation within the limits of this survey.

N. STATISTICS

Total NM of Sounding Line	1255 2259	1257 1451
Nautical Miles of Crossline	1 63	122.5
Nautical Miles of Development	11	33
Miscellaneous Distance Run	333	180
Nautical Miles To and From	1662	478
Bottom Samples	32	0

ABSTRACT OF TIMES OF HYDROGRAPHY

NOAA LAUNCH 1255

			(GM:	r)
<u>Julian Day</u>	<u>Date</u>	<u>Positions</u>	Time From	Time To
107	17 April, 1974	1- 116	143828	192616
108	18 April	116- 175	141614	164446
D	uplicate position	numbers 116		
113	23 April	176- 289	150911	193341
117	27 April	290 4 4 7	134600	195004
120	30 April	448- 566	141344	193435
121	1 May	567- 665	145530	183631
122	2 May	666- 762		
127	7 May	763-8 5 7	141754	181043
128	8 May	858- 916		
129	9 May	917-1010	151504	193038
130	10 May	1011-1125	132151	174314
135	15 May	1126-1246	133036	174924
136	16 May	1247-1361	133505	175458
141	21 May	1362-1486	135509	183213
144	24 May	1487-1580	144527	181655
148	28 May	1581-1597	144601	152401
149	29 May	1598-1700	132747	174715
1 50	30 May	1701-1877	131358	195928
151	31 May	1878-2061	131641	213001
155	4 June	2062-2143	132325	165541
157	6 June	2144-2211	132828	163823
161	10 June	2212-2256	143955	165525
162	11 June			
163	12 June	2257-2383	140336	190755
164	13 June	2384-2534	131541	190557
165	14 June	2535-2638	132453	171558

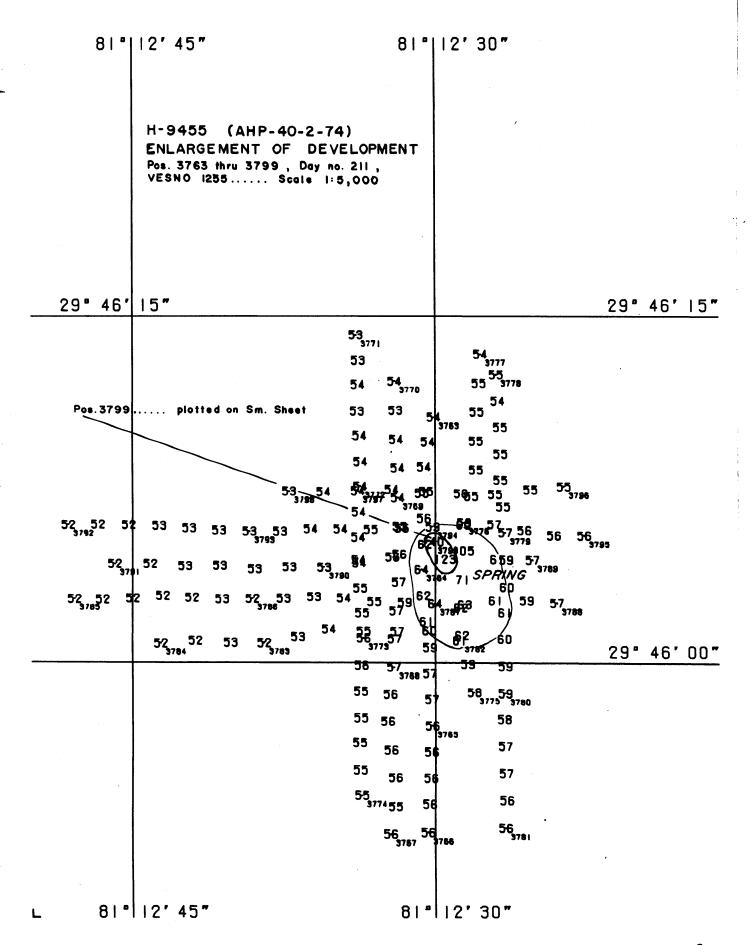
170	19 June	2639-2686	144149	165712
171	20 June	2687-2797	133745	184537
179	28 June	2829-2885	175836	202517
180	29 June	2886-2935	144011	171940
190	9 July	2936-3030	142626	175913
191	10 July	3031-3138	141020	182257
193	12 July	3139-3279	131107	175904
196	15 July	3280-3392		174232
197	16 July	3393-3462	133658	164831
199	19 July	3463-3512	131509	161346
200	19 July	3513-3622	132804	172236
203	22 July			
205	24 July	3623-3738	135920	182339

ABSTRACT OF TIMES OF HYDROGRAPHY

NOAA LAUNCH 1257

(GMT)

			(GMT)
Julian Day	<u>Date</u>	<u>Positions</u>	Time From	Time To
150	30 May 1974	5000-5084	133003	171054
152	1 June	5085-5215	125302	181221
154	3 June	5216-5386	124307	193444
155	4 June	5387-5533	124655	185414
157	6 June	5534-5733	121652	203435
158	7 June	5734-5838	133351	174833
162	11 June	5839 - 5994	122152	184215
163	12 June	5995-6152	121059	185425
164	13 June	6153-6206	123730	210228
165	14 June	6207-6263	140444	212230
168	17 June	6264-6374	122906	165633
169	18 June	6375-6542	122503	195344
180	29 June	6542-6644	125930	181500
Note:	Duplicate Posit	ion Number 6	542 on Days 1	69 and 180.
189	8 Ju ly	6645-6771	131356	185514
191	10 July	6772-6882	133507	183734
192	ll July	6883-7014	122858	180356
193	12 July	7015-7175	121050	184951
196	15 July	7176-7307	122958	184214



O. MISCELLANEOUS

The bar check on Day 162 was rejected due to inaccurate data caused by seas.

The bar check taken on Day 191 by Launch 1255 was also not used due to inaccurate data which results from poor sea conditions for obtaining bar check.

The analog recorder unit on Launch 1255 was changed on Day 118. The ECU remained the same throughout the survey as did the Digital Depth Monitor.

P. RECOMMENDATIONS

None

Q. REFERENCES TO REPORTS

- 1 Electronic Control Report, OPR-436(H-9455)
- 2 Report on Corrections to Echo Soundings, OPR-436(H-9455)

APPROVAL SHEET

The Boatsheet and records were inspected for completeness and no additional work is considered necessary.

F. T. Smith

LCDR, NOAA

Chief, AHP

ELECTRONIC CONTROL REPORT

ATLANTIC HYDROGRAPHIC PARTY

LAUNCHES 1257 AND 1255

OPR-436 EAST COAST OF FLORIDA

SURVEY AHP-40-2-74 (H-9455)

Chief of Party

LCDR Fidel T. Smith

This report and the calibration data apply to Survey H-9455(AHP-40-2-74).

Hastings Raydist operating in the Range-Range mode was used to control this survey. The two vessels both operated from the same set of shore stations. Launch 1257 operated with a 1st party navigator while Launch 1255 operated with a 4th party navigator aboard. No unusual difficulties or problems occurred with the system during this survey. The shore stations were returned by personnel of the Electronics Division of AMC and the frequencies of the Launch units were checked once during this survey. Launch 1257 operated on a frequency of 3306.400 KHZ. Launch 1255 operated on a frequency of 3306.520 KHZ.

The following is an inventory of equipment used by the Launches during the survey. No equipment changes were done during the survey.

Launch 1257:

Navigator - ZA64 Serial No. 59
Transmitter TA96 Serial No. 37
Antenna Loading Coil (QB52) Serial No. 119
Raydist Power Supply

Launch 1255:

Navigator - ZA67 Serial No. 58

Transmitter - ZA96 Serial No. 36

Antenna Loading Coil (QB52) Serial No. 143

Raydist Power Supply (SA-201) Serial No. 76

The shore station equipment used by both vessels is as follows:

Left Station(Red) Model AA60 Serial Number 54 Right Station(Green) Model AA60 Serial Number 119

One station always used a 60 foot tower with no whip antenna while the other used a 40 foot tower with a 35' whip antenna attached.

Two sets of stations were used to control the survey. For operation between Days 107 and 180 the stations were located as follows:

Left Station(Red) - Flag 1973 Lat. 29 29 22.61 Long. 81 07 57.11 Right Station(Green) - Signal 585

Lat. 29 50 40.54"

Long. 81 51 56.98"

For operation between Days 189 and 211 the stations were located as follows:

Left Station(Red) - Palm Raydist 1974

Lat. 29° 28' 35.256"

Long. 81° 10' 52.216"

Right Station(Green) - Deltona Raydist 1974

Lat. 29° 46' 50.817"

Long. 81° 18' 30.545"

All stations and calibration signals were located by 3rd Order Traverse methods by Mr. Jim Shea of the Atlantic Marine Center Operations Division. The position of signal 585 was located by the Field Party with a short traverse using only one angle and a taped distance from traverse signal 584. See sounding volume 1 for original data.

Calibration was by 3-Point Sextant Fix. Sextants were checked for index error before each series of fixes. Check angles were used if enough people were available. Otherwise at least one object was changed during any one series of fixes. In one case only 3 objects could be seen to calibrat on. In this case the left and right anglemen reversed position during the series of fixes to insure correct sighting of the available objects.

Launch 1257 used program RK-561 to compute calibrations and therefores the original data is on computer printouts from the program.

Launch 1255 recorded data by hand on forms and used AM560 to compute the calibrations. Due to the fact that RK561 could not be made to work with Launch 1255's system at the time.

Signal Tape, Abstract of Calibration Corrections(including Lane Loss and Gains), and original Calibration Data follow.

The daily calibration observations and computations are bounded and submitted with the field records. They should remain with the field records.

VESSEL : 1257 SHEET : H-9455

TIME	DAY	PATTERN 1	PATTERN 2
•	•	•	•
133003	150	+00076	• -00038
235959	130	+00076	_
200909	•	•	-00038
125302	152	-00026	+00055
235959	,	-00026	+00055
203737	•	1	1
124307	154	-00020	-00041
235959	134	- 00050	-00041
000707	•	•	,
124655	155	-00004	+00036
235959	•	-00004	+00036
	•	•	1
121652	157	-00015	-00044
235959	•	-00015	• -00044
	•	•	1
133351	158	-00018	+00048
235959	•	-00018	+00048
	•	•	•
122152	162	-00026	+00038
235959	•	-00086	+00038
	•	•	•
121059	163	- 00082	+00038
235959	•	-00022	+00038
	•	•	•
123730	164	-00027	+00031
235959	•	-00027	+00031
	•	•	•
140444	165	-00030	+00038
235959	•	-00030	+00038
	•	•	•
122906	168	-00032	+00037
235959	•	-00032	• +00037
	•		•
122503	169	-00088	+00040
235930	•	-00028	+00040
105000	•		
125930	180	-00040	+00034
235959	•	-00040	+00034
121200			•
131300	189	+00010	-00021
235959	•	+00010	-00021
122547			
133507	191	+00015	-00033
235959	•	+00015	-00033
122800	1 100	1 +00010	•
155000	192	+00018	-00024

VESSEL: 1257

SHEET : H-9455

TIME	4	DAY		PATTERN 1		PATTERN 2
235959		192	•	+00018	,	-00024
121050 235959		193	•	+00023 +00023	•	-00016 -00016
122958 160040	•	196	•	+00016 +00127	•	+00065 +00078
160100 235959	•		•	+00227 +00227	•	+00078 +00078

VESSEL: 1255

SHEET : AHP-40-2-74

	TIME		DAY	PATTERN 1		PATTERN 2
	+	+			+	
	143828	Y	107	+00404	•	-00336
	240000	¥	*	+00404	1	
	240000	¥		+00404	v	-00336
•	144735	¥	108	-00026	•	-00026
	240000	♥'	•	-00026	T	-00026
		¥	r	20020	¥	- 60020
	150911	¥	113	+00022	•	-00005
	172914	v	Y	+00022		-00005
	172934	•	v	+00022	, 🕶	-00005
	240000	¥	v	+00022	v	
		•	Y	. 00022	Y	-00005
	134600	¥	117	+00020	¥	+00004
	141220	V	Y	+00020	¥	+00004
	240000	•	T	+00020	T.	+00004
		۳	Y		Y	
	141344	¥	12Ø *	+00026	•	+00001
	240000	¥"	₹'	+00026	¥	+00001
		¥	T		¥	. 22221
	145530	Y	121	+00005	•	+00017
	240000	¥	Y '	+00005	•	+00017
		•	v		Y	
	145737	1	122	+00013	•	+00012
	240000	۳	1	+00013	¥	+00012
		*	*		v	. 55512
	141754	Y	127	+00006	¥	+00021
		~			-	. 20021
<i>18</i> 1754	•	•	+00006	+00021		
	240000	Ť	•	+00006	•	+00021
		₹'			Y	
	142023	¥	128	+00003	•	+00022
	240000	•	Ť	+00003	Ŧ	+00022
		₹.	r		¥	
	151504	Ť	129	+00007	₹'	+00013
	190318	♥'	•	+00007	¥	+00013
	240000	T	Ť	+00007	*	+00013
		٧	¥		T	
	132151	r	130	+00004	•	+00021
	240000	¥	¥	+00004	Ŧ	+00021
		, r	ĩ		1	. 20021
	132000	¥	135	+00010	Ť	+00022
	180000	¥ .	٧	+00010	*	+00022
		•	r	~~~	Ý	יטטטכב
	133505	¥	136	+00003	•	+00015
	165538	¥	Y	+00003	r	-00182
	180000	•	Y	+00003	v	
		¥	v	. 55550	Y	-00182
		**	•			

VESSEL: 1255

SHEET: AHP-40-2-74

	TIME	DAY	PATTERN 1	•	PATTERN 2
	+	1	•	+	
Ø •	136	+00003	-00182	~	
	134917~	141	+00013	•	+00013
•	1833ØØ	Y	+00013	√ T *	+00013
		v	*	٧	~~~~
	144507	144	+00015	•	+00036
	190000	*	+00015	•	
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	T	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	v	+00036
	1 /1 /1 6 /3 1	1 48		ď	. ~ ~ ~ ~ ~
	144601	148	. 56666		+00032
	160000	Υ	+ OBBBB →	₹'	+00032
			T	٧	
	130000	149	+00009	۸.	+00045
	180000	Y	* +ØØØØ9	₹.	+00045
		t '	r	T.	
	131358	150	+00001	Y	+00043
	200000	Y	+00001	₹'	+00043
		T	1	ľ	. 55540
	131641	* 151	* +aaaa5	v	100000
	210821	¥ 151	כשששי	ľ	+00036
		r	+00003		+00036
	214000	v	Canan	¥	+00036
			Y	¥	
	132315	155	+00016	¥	+00039
	160158	r	+00016	¥	+00039
	175541	*	+00016	. 1	+00039
		T	Y	* 1	
	132828	157	+00001	Y	+00037
	170000	Y	+00001	, T	+00037
		•		¥	. 00001
	141733	161	+00010	¥	+ @ @ @ D /s
	163225	*	. 00010	T	+00034
	170000	ľ	+ DD0 10	Y	+00034
	170000	Y	+00010	Ť	+00034
	148046				
	140246	163	00001	* *	+00048
	184735		+00007	1	+00048
	200000	ř	+00007	*	+00048
		T	T	ľ	
	131541	164	-00003	•	+00037
	192000	Ť	-00003	T	+00037
		r	•	. *	
	132453	165	-00009	T'	+00028
	173000	•	-00009	¥	+00028
		•	1	* Y	100020
	144149	170		Y	+000000
	165732	¥ 170	שוששש	*	+00007
	103/32	F	-00010	*	+00007
	100045				
	133745	171	-00003	¥ 	+00002

VESSEL: 1255

SH EET : AHP-40-2-74

TIME		DAY		PATTERN 1	, +	PATTERN 2
+	•					
180645	Y	171	•	-00003	•	+00002
184557	r		T	-00003	T T	+00002
175836	v r	1 79	*	-00025	v	+00005
191212	¥	• 17	*	-00025	7'	+00005
240000	*		•	-00025	T	+00005
240000	Y		¥		T	
144011	¥	18Ø	*	-00020	•	+00010
161403	*		₩.	-00020	•	+00010
170320	●.		¥	-00020	T'	+00010
240000	¥		Y	-00020	¥	+00010
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153417	Y	190	Y	+00027	₹.	+00029
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144012	¥	191	*	+00032	•	+00042
1823ØØ	₹'		¥	+00032	•	+00042
.02022	¥		. •		•	
131107	T	193	Ψ,	+00031	•	- 00038
175924	. *	.	v	+00031	•	-00038
110724	¥		T		T.	•
135835	v	196	¥	+00031	Y	-00047
165743	*	.,,	¥	+00031	.₹	-00047
235959	4.		•	+00031	v	-00047
200707	T		¥		T	
133638	•	197	•	+00030	•	+00044
145300	T		Ť	+00030	¥	+00044
164851	ψ .		¥	+00030	¥	+00044
104031	T		•		•	
131448	T	199	T	+00027	•	+00042
161406	v		*	+00027	•	+00042
101400	¥		Y		v	
132744	T	200	•	+00042	*	+00030
134904	¥		Y	+00042	T	+00030
172256	¥		Y	+00042	T	+00030
1.2200	v		•		¥	
134453	¥	205	•	+00042	•	+00034
140855	¥		Ť	+00042	•	+00034
151128	r			+00042	T	+00034
173401	T		۲.	+00042	T	+00034
235959	. *		T	+00042	¥	+00034
	ť		T		•	
165140	Y	211	•	+00031	*	+00045
193250	¥		•	+00031	T	+00045
170200			-			

ê							
100	29	53	% Ø468	Ø81	17	1452	NAVAL RESERVE, TANK, 1933
101	29	53	0672	081	17	1945	ST. AUGUSTINE LIGHTHOUSE 1882
500	29	28	4243	081	07	4286	FLAGLER BEACH TANK
512	29	30	4642	081	08	3581	N.E. CORNER SMALL CONCRETA BLDG CTRAVER
524	29	33	3902				ORANGE TRIPOD (TRAVERSE)
528	29	34	4523	081	10	3297	NIE. CORNER OF PALM COAST INN CTRAVOM
536	29	37	0168	081	11	2631	ORANGE WRAP ON ABANDONAD LIFE GUARD TOWER (TRAVERSE)
544	29	40	0958	081	12	4833	TOP OF ARCH AT MARINELAND CTRAVERSE!
54 8	29	41	2 7 98	081	13	1 783	WHITE DOME SHAPED BEACH HOUSE CTRAVERS
552	29	41	4814	081	13	2428	RED ROOF HOUSE (CENTER) ON BEACH CHAI
564	29	44	3981	081	14	3636	S.E. CORNER OF CONDOMINIUM (TRAVERSE)
568	29	46	2114	081	15	1918	CRESCENT BEACH TANK (3RD GADER TRAVE)
584	29	50	3947	081	15	5540	IRON POST PROJECTING B' (TRAVERSE)
585	29	50	4054	081	15	5698	RAYDIST TOWER SITE
							(LUCATED WITH SHORT TRAVERSE
							BY FIELD PARTY FROM
	•						SIGNAL 584 - BEE VOLUME 1
							FUR ORIGINAL DATA)

	ELECTRONIC CONTROL ENGAGETERS	
	22	1
1	Project # OPR-136 2. Reg. # H-9155 3. Field # AHP-10-2-71	
4.	Type of Control: Raydist (Hi-Fix, Raydist, EPI, etc.)	
5.	Frequency 3306.400 (for conversion of electronic lanes to meters)	
6.	Mode of Operation (check one):	
	Range-Range X Range-Visual Range-Visual	
	Range-Range X	العالم المحر
•	Hyperbolic (3-station)	
!	Slave One Station I.D. Long. Master Station I.D. Long.	
	Location of Survey:	
-	Range-Range x Imagine an observer is standing at R_1 Station and looking directly at R_2 (check one):	
•	Survey area is to observer's Right X A=Ø	
	Survey area is to observer's Left A=1	
	Hyperbolic Looking from survey area toward Master Station:	
	Slave One must be to observer's Left;	
	Slave Two must be to observer's Right.	
8	This form is submitted as an aid in preparing a boat sheet.	
	This form applies to all data on this survey.	
	This form applies to part of the data on this survey.	
	Vessel From To Position Numbers EDP # Time Day Time Day (inclusive)	
*	1257 133003 150 181500 180 5000 to 66以 1255 140000 107 240000 180 001 to 2935	
~ ••	9. Remarks:	
٠,	A STATUTE OF A STATE AND ADDRESS AND ADDRE	

1.	Project # OPR-136 2. Reg. # H-9455 3. Field # AHP-40-2-74
4.	Type of Control: Raydist (Hi-Fix, Raydist, EPI, etc.)
5.	Frequency 3306.400 (for conversion of electronic lanes to meters)
6.	Mode of Operation (check one):
	Range-Range X Range-Visual Range-Visual
•	Range-Range X Range-Visual Range-Visual Range One (R ₁) Control (220) Lat. 29° 28 35.256" Station I.D. Palm Raydist 1974 Long. 81° 10' 52.216" Range Two (R ₂) Lat. 29° 46' 50.817" Station I.D. Deltona Raydist(270) Long. 81° 18' 30.545"
•	Hyperbolic (3-station)Hyper-Visual
	Slave One Station I.D. Long. Master Station I.D. Long.
٦	Location of Survey:
· _ ~	Range-Range T Imagine an observer is standing at R ₁ Station and looking directly at R ₂ (check one):
•	Survey area is to observer's Right A=Ø
	Survey area is to observer's Left A=1
	Hyperbolic Looking from survey area toward Master Station:
	Slave One must be to observer's Left;
	Slave Two must be to observer's Right.
8	This form is submitted as an aid in preparing a boat sheet.
	This form applies to all data on this survey.
	This form applies to part of the data on this survey.
•	Vessel. From To Position Numbers EDP # Time Day Time Day (inclusive)
	1257 131356 189 184214 196 6645 to 7307 1255 150000 190 240000 211 2936 to 3799 to
. 9	Remarks:

ATLANTIC MARINE CENTER

PROJECTION PARAMETERS

POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

ı.	Project No. OPR-436 4. Requested By Verification
2.	Reg. No. H-9455 5. Ship or Office A.M.C.
3.	Field No. AHP-40-2-74 6. Date Required
7.	Polyconic X Modified Transverse Mercator
8.	Central Meridian of Projection 81 ° 01 ' 00 "
9.	Survey Scale: 1: 40,000
10.	Size of Sheet (check one):
	36 x 54 36 x 60 x Other Specify
11.	Sheet Orientation (check one):
	$NYX = 1 $ NYX = \emptyset X
<u>.</u>	• 18
	N
	CMER
12.	Plotter Origin: S.W. Corner of Sheet (not necessarily a grid
	Latitude 29 ° 31 ' 36 " intersection)
	Longitude 81 . 20 "
13.	G.P.'s of triangulation and/or signals attached
14.	Material Desired: Tracing Paper Mylar
	Smooth Sheet X Other Specify
15.	Remarks:
•	

CORRECTIONS TO ECHO SOUNDINGS

ATLANTIC HYDROGRAPHIC PARTY

NOAA LAUNCHES 1255 AND 1257

REPORT ON

OPR-436 EAST COAST OF FLORIDA

SURVEY AHP-40-2-74 (H-9455)

Chief of Party
LCDR Fidel T. Smith

A. Sounding Equipment

The following equipment was used by Launch 1257 for all soundings on this survey:

Raytheon Fathometer Model DE 723-40 Serial No. 37024 Raytheon Digital Depth Monitor Model DE 723-41 Serial No. 37016 Raytheon ECU Model 723-42 Serial No. 1910

The following equipment was used by Launch 1255 on the days indicated for sounding on this survey:

Days 107 to 117
Raytheon Fathometer Model DE 723D Serial No. 37019
Raytheon Digital Depth Monitor
Model DE 723D Serial No. 1045
Raytheon ECU Model DE 723D Serial No. 2132

Days 120 to 211
Raytheon Fathometer Model DE 723D Serial No. 2924
Raytheon Digital Depth Monitor
Model DE 723D Serial No. 1045
Raytheon ECU Model DE 723D Serial No. 2132

Only the analog recorder was switched during the portion of AHP-40-2-74, H-9455 completed by Launch 1255.

B. Instrument, Draft, and Phase Error

Inst. error com

A draft correction of 42.7 feet was applied to all soundings on the Master Tape for both vessels. No instrument error was applied as the digitized soundings are correct as digitized. No phase correction was applied. While check scanning the fathograms a correction was determined and applied to all analog values which were changed or inserted on the Master Tape. This analog to digital correction was written for A and B scales on the Master Tape Printouts.

C. Stylus Arm Error

The instruments were maintained in good operating condition throughout this survey. Frequent initial, A-F, and stylus checks were made daily. Any stylus arm error noted was applied to analog readings while checking or inserting soundings.

D. Settlement and Squat

No new settlement and squat determination was made for Launch 1257 during this survey. Previous determination(See H-9344 Descriptive Report) were used. The same settlement and squat corrections were applied to soundings obtained by Launch 1255.

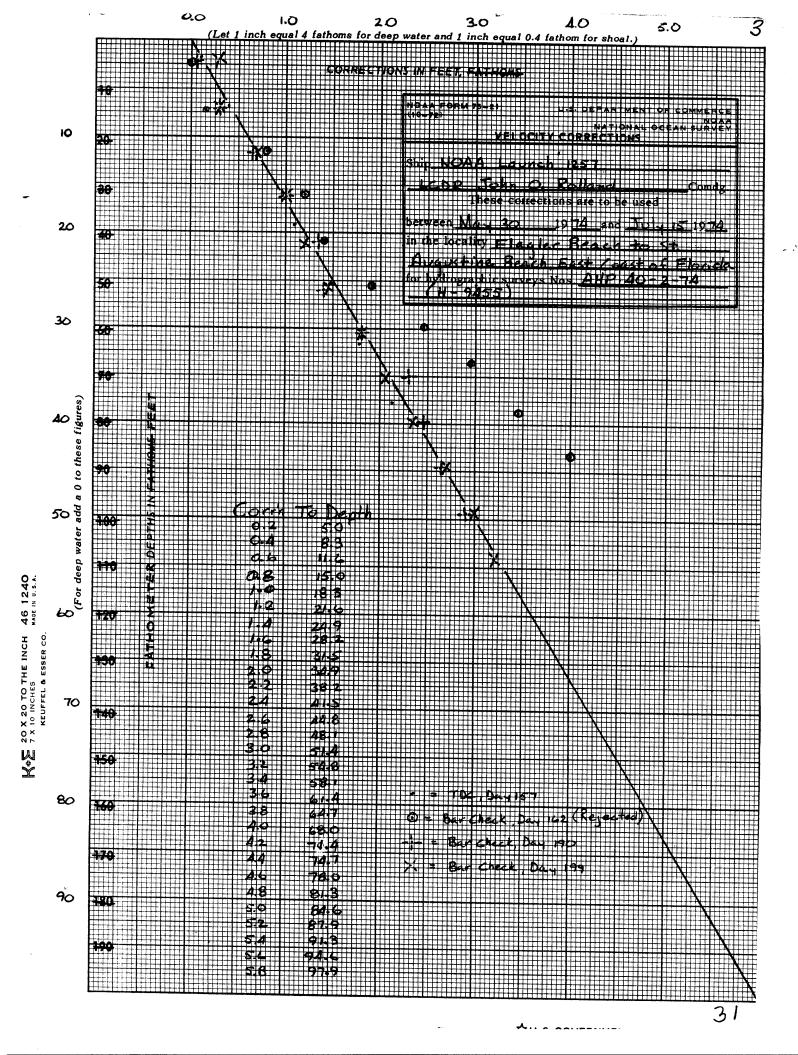
Settlement and squat corrections were not made for Launch 1255 due to the unavailability of a suitable area to carry out these determinations in the vicinity of St. Augustine, Florida.

E. Velocity Corrections

Velocity corrections were determined by two seperate methods. One method was the traditional bar check and the other method was from TDC casts made with portable electronic temperature, depth and conductivity sensors. Bar checks were only made under ideal conditions. The results for the two methods are shown in this report. A velocity table was constructed for each vessel and is given in this report. There is a slight difference between the velocity curves for Launch 1257 and 1255 and is probably due to the fact that Launch 1257's data is weighted in favor of July while 1255's data is a mean of May and July readings. This could cause a \$ foot error at seventy feet.

The results of the TDC computations agree with the bar checks within 0.1 foot at forty feet.

Velocity table printouts are shown in this report along with printouts of TC/TI tapes.



Velocity Connector Table 0001 Vesuo 1257 AHP-40-2-74 H-7455,0PR-436

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000050 0 0002 0001 000 125700 009455
000083 0 0004
000116 0 0006
000150 0 0008
000183 0 0010
000216 0 0012
000249 0 0014
000282 0 0016
000315 0 0018
000349 0 0020
000382 0 0022
000415 0 0024
000448 0 0026
000481 0 0028
000514 0 0030
000548 0 0032
000581 0 0034
000614 0 0036
000647 0 0038
000680 0 0040
000714 0 0042
000747 0 0044
000780 0 0046
000813 0 0048
000846 0 0050
000879 0 0052
000913 0 0054
000946 0 0056
000979 0 0058
999999 0 0058
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DAY 150 & ON

TC/TI Connector Vesno 1257 OPR-436 AHP-40-2-74 H-7455

1003 000000 0 0000 0001 150 125700 009455 24000 0 0000 0001 211 (25700 009455

ABSTRACT OF BARCHECKS NOAA LAUNCH 1255
East Coast of Florida

10 July 1974 191 Day

Ò	PR -436	Eas	st Coast	of Flor	ida					
			'AL	OLANA	G l	Differe	nce			
	Depth	down	up	down	up		,			
	5	4.1	4.4	4.4	4.5		:			
E	10	9-1	9.5	9.3	9.6					
	15	9.1	14.4	9.3 14.4	9.6 14.4					
	 	19.0	19.0	19.0	19.0					
-	20	27.0	27.0	27.0	23.9					
*	25 30	23.9 28.6	23.9 28.7	23.9 28.7	28.8					
			2001		20.0					
	35 40	34.5		34.6						
	 									
	45						<u> </u>			
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	BAR	Ave.Dig	. Diff.		Diff8					
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	5	4.2	-8		0.0					
•	10	9.3	•7		-0.1					
	15	9.3 14.4 19.0	\$6		-0.2			<u> </u>		
	20	19.0	1.6 1.0		-0.2 0.2					
	1			 						
	25 30	23.9 28.6	1.1		0.6	-			 	
	35			ļ					<u> </u>	
		34.5	1.5	<u> </u>	0.7	ļ	 		1	
		TTo-		4.3.	m	 	 	ļ		
	<u> </u>	Oucorre	crea der	th irom	Transduc	er same	as aver	ige digi	tal	
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	l	1	1	1	1	1	1	1		

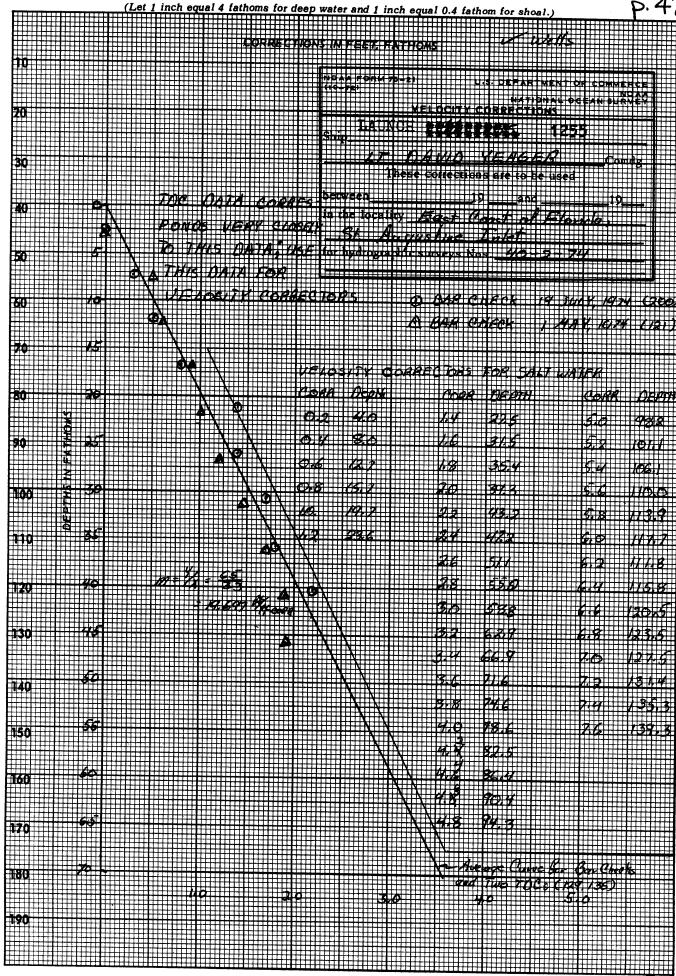
Abstract of Barchecks NOAA Launch 1255 121 Day---- 1 May 1974

BAR	D i g d own	ital up	down	LOG up			•		
5	3/0	2.9	same	as dig.					
	1		see 1	ath. for	121 day				
10 15	7.4 12.3	7.5 12.3							
				 					
2 <u>0</u> 2 5	17.0	17.0 21.9							
<u>30</u> 35	26.7	26.7		<u> </u>					
	31.5	31.5		 					
40	36.2	36.3		 					
45 5 0	41.0	41.0 46.0							
50	46.0	46.0							
			00						
			- Litte	rence	 		1	1.	
depth	Ave Di	gital	Trene	ducer de	oth_	Corrin	to soun	ning	
	7.0	<u> </u>	2.	ļ		0.0		 	
5	2.9	 			 	 			
10	7.4 12.3		2.	. 6	ļ	0.5			
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20	17.0		3. 3.	φ		0.9	-	ļ	
25 3 0	21.9		3.	· <u>1</u>		1.0			
30	26.7		3.	·)	ļ				
35	31.5		3. 3.	.5		1.4			
40 45	36.2 41.0		3.	.8		1.7			
45	41.0		4,	, φ		1.9	ļ		
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	19 July 1						'Diff2.			
	Dig	Anal.			Avg. Dig	Diff.	Corr.	Raw De	oth	fm.
_								Trans.		
	2.5	2.6	-0.2	5	2.5	2.5	0.0 0.3			
	7.1	7.1	+0.2	10	7.2					
	12.0	12.0	+0.3	15	12.0	3.0	0.5			
	16.7	16.7	+0.6	20	16.7	3.3	0.8			
	21.1	21.1	+1.2	30	26.1	3.9	1.4			
	30.8	30.8	+1.5	35	30.8	4.2	1.7			
	35.7	35.8	+1.6	40	35.7	4.3	1.8		<u> </u>	
	40.3	40.4	+2.0	45	40.3	4.7	2.2			
	40.4	40.4	+1.9	+ -3	+ + 0.3	T•/	. 4.4			
	35.8	35.8			+				ļ	
	30.9	30.9		 	+					
	26.0	26.1	 	+					 	
·	21.2	21.3		 						
	16.7	16.8	 		1					
	12.1	12.2								
	7.3	7.4								
	2.5	2.6								
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I I	9 JUL 1974	BAR	CHECK	L	aunch 125	5			
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. 5	2.5	2.6	-0.2	5			 	1	
10	7.1	7.1	+0.Z		2.5	2.5	0.0	0/6.	
15	12.0	12.0	+0.2	10	7.2	2.8	0.3	 	
	16.7	16.7		15	12.0	3.0	0.5	4	
20	21.	21.1	+0.6	20	16.7	3.3	1.40.9	40.	
25	26.2	 	+1.2	25	21.1	3.9		\$	
30	30.6	26.2	+1,1	30	26.1	3.9	1.4		
35 40	30.8	30.8	+1.5	35	30.8	4,2	1.7	7	
	35.7	35. 8	+1,6	40	35, 1	4.3	1.8		
45	40.3	40.4	+2.0	45	40.3	4.7	2.2	SA	
45	40.4	40.4	+ 1.9 "						
40	35.8	35.8	+						
36	30.9	30.9				·	<u> </u>	<u> </u>	
30	26.0	26.1							
25	21.2	21.3							
. 50	16.7	16.8							
15	12.1	12.2					· · · · · · · · · · · · · · · · · · ·		
_ 10	7.3	7.4							
	2.5	2.6							
GAIN	0 2.5				·				
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(For deep water add a 0 to these figures)



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VELOCITY CORRECTOR TABLE 0001 ,
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OPR 436 AHP 40-2-74 H-9455

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000747 0 0044
000780 0 0046
000813 0 0048
000846 0 0050
000879 0 0052
000913 0 0054
000946 0 0056
000979 0 0058
999999 0 0058
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TC/TI TAPE PRINTOUT VESNO 1257 OPR 436 AHP 40-2-74 H- 9455

1003 000000 0 0000 0001 150 125700 009455 240000 0 0000 0001 211 125700 009455

TC/TI TAPE FOR AHP 40-2-74 VESNO 1255

000000 0 1003 0002 107 125500 009455 132157 0 0000 0002 211 125500 009455

VELOCITY CORRECTOR TABLE FOR AHP 40-2-74 VESNO 1255

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000080 0 0004
000127 0 0006
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000275 0 0014
000315 0 0016
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000588 0 0030
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000669 0 0034
000716 0 0036
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100	No	NO	NO	NO	No	163823	22/1	132828	2/44	157	Η
20	NO	MO	NO	NO	No	165541	2143	132325	2062	155	I
NO	No	NO	No	NO	NO	213001	2061	/3/64/	1878	151	+
70	NO	NO	NO	No	NO	195928	1877	131358	1701	150	H
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Use more than one line per sample if necessary.

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INIT.	al conditions, cohesiveness, denied stat. no., type of bottom relief i.e., plain, disposition, etc.)	FIELD DESCRIPTION	CORE MENT	TRACE.	WEIGHT SAM- PLER	LONGITUDE (FAMOUR)	SAMPLE POSITION	DATE	SERIAL NO.
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ATLANTIC MARINE CENTER APPROVAL SHEET AUTOMATED SURVEY H- 9455

All revisions and additions made on the smooth sheet during verification have been entered in the magnetic tape records for this survey. A new final position printout has/has not been made. A new final sounding printout has/has not been made.

Date: May 13,1976

Signed: William L

Title: Chief, Verification Branch

The verified smooth sheet has been inspected, is com-В. plete, and meets the requirements of the Hydrographic and AMC Manuals. Exceptions are listed in the verifier's report.

13 may 1976 Date:

Signed: Claunothe

Title: Chief, Processing Division

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Atlantic Marine Center:

Hourly heights are approved for

Daytona Beach

Tide Station Used (NOAA Form 77-12): Jacksonville Beach

Period: April 17 - July 24, 1974

HYDROGRAPHIC SHEET: H9455

OPR: 436

Locality: Outer Coast of Northern Florida

#2.1 ft. (Daytona Beach)

Plane of reference (mean tower low water): 6.1 ft. (Jacksonville Beach)

Height of Mean High Water above Plane of Reference is 4.5 ft.

Remarks: Recommended automated zoning.

Chief, Tides Branch

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NOAA FORM 76-155 (11-72) NA	TIONAL C	CEANIC				OMMERCE STRATION	SU	RVEY NU	MBER		
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NOAA FORM 76-155

NOAA FORM 77-27 (9-72) (PRESC. BY HYDROGRAPHIC MANUAL 20-2. 6-94.7 1-13)

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. H-9455

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

RECOR	RD DESCRIPTION		AMO	UNT		RECORD DESC	RIPTION	AMOUNT
SMOOTH SHEET	& 2-Overlays	3	1		BOAT	SHEETS		11
DESCRIPTIVE R	EPORT		1		OVERL	_AYS		5 🗽
DESCRIPTION	DEPTH RECORDS	HORIZ.	CONT. ORDS	PRIN	TOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
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SPECIAL REPORTS (List)

1-Electronic Control Report filed with Fathograms

OFFICE PROCESSING ACTIVITIES

The following statistics will be submitted with the cartographer's report on the survey

		AMOL	INTS	
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVIEW	TQTALS
POSITIONS ON SHEET				6045
POSITIONS CHECKED		604		
POSITIONS REVISED		100		
DEPTH SOUNDINGS REVISED		500		
DEPTH SOUNDINGS ERRONEOUSLY SPACED		0		
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		0		<u> </u>
		TIME (MA	NHOURS)	
TOPOGRAPHIC DETAILS		8		
JUNCTIONS		30		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		100		
SPECIAL ADJUSTMENTS		24		
ALL OTHER WORK		75		
TOTALS		257	30	
PRE-VERIFICATION BY		BEGINNING DATE	ENDIN	GDATE
W.H. Tyndall. C. Meekins, and R.	Roberson	09/17/74		06/22/75
VERIFICATION BY		BEGINNING DATE		G DATE
L.G. Cram		04/06/76		04/22/76
REVIEW BY		BEGINNING DATE	ENDIN	G DATE

Q. C. Evaloution D. A. Romeshing 7-23-76 18 4-3 U.S. 6.8 12-769-562/439 REG. #6

The Computer and Excess Sounding Cards for this survey have not been corrected to reflect the changes made to the Computer Card and Excess Card Printouts at this time of the review.

When the cards have been updated to reflect the final results of the survey the following shall be completed:

	CARDS CORRECTED	•
DATE	TIME REQ'D INITIALS	
REMARKS:		1
	Reg. No.	•
has not be	tape containing the data for this survey corrected to reflect the changes made ation and review.	• •
When the main final resuccession completed:	netic tape has been updated to reflect the s of the survey, the following shall be	
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DATE 12/2/	O TIME REQ'D. INITIALS	_
REMARKS:	이 이 사람들은 사람이 생활하고 있습니다. 내용 사람이 되었다.	

H-9455 Information for Future Presurvey Reviews

Except for the inlets and inshore areas, only minor changes are expected in the survey area.

The following items will require investigation by wire-drag, either conventional or improvised, and divers to verify their existence and to obtain their least depths:

	<u>Item</u>	Latitude	<u>Longitude</u>
1.	28-foot sounding, Wk	29°46.7'	81°14.0'
2.	Wreck	29°35.6'	81°10.6'
3.	Wreck	29°46.93'	81°15.13'
4.	Wreck (NORTHWESTERN)	29°34.0'	81°09.0'
5.	Wreck (ARAWAR)	29°36.0'	80°54.02'

Position Lat.	Index Long.	Bottom Change Index	Use <u>Index</u>	Resurvey Cycle
293	0812	3	2	50 years
293	0811	2	2	50 years
293	0810	2	2	50 years
293	0805	2	2	50 years
294	0812	3	2	50 years
294	0811	2	2	50 years
294	0810	2	2	50 years
294	0805	2	2	50 years

HYDROGRAPHIC INSPECTION TEAM

ATLANTIC MARINE CENTER

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO.: H-9455 DATE: May 13, 1976

GENERAL LOCALITY and SPECIFIC LOCATION: FIELD NO.: AHP-40-2-74

East Coast of Florida, St. Augustine

SURVEYED: April 17, 1974 through July 30, 1974

PROJECT NO.: OPR-436 SCALE: 1:40,000

SOUNDINGS BY: Raytheon DE-723 and 723D CONTROL: Raydist

with Digital Monitor (Range-Range)

(Kange-Kange)

Chief of Party LCDR F.T. Smith
Surveyed by LCDR J.O. Rolland
LT D.W. Yeager
LTJG R. Floyd

Verified and Inked by Leroy G. Cram

1. Description of the Area

The area is just south of St. Augustine Beach, Florida and extends to a point just north of Flagler Beach, Florida. The area surveyed extends from the approximate six foot curve to the approximate ninety foot curve. The area is predominantly sand and shell.

2. Control and Shoreline Type-Source-Origin

The control for this survey is by Raydist operated in the range-range mode with Launch 1255 and Launch 1257 using the same set of stations. The origin of control is adequately covered in Section F of the Descriptive Report.

The shoreline originates with final reviewed (September, 1975) manuscripts TP-00663 and TP-00664 based on October - November, 1973 air photography and a 1975 field edit. These manuscripts were reduced from 1:20,000 scale to 1:40,000 scale for application on this sheet.

3. Hydrography

- A. Crossings: Depths at crossings are in good agreement.
- B. Depth Curves: The usual depth curves adequately delineate the bottom configuration.
- C. Low-water Line: The low-water line was applied from the shoreline manuscripts as listed in Section Two above.
- D. Developments: Developments were run on Pre-survey Review Items and are discussed by number as follows:

Item No. 35 - Wreck of the vessel ARAWAR at latitude 29° 35′ 56″, longitude 80° 54.0266″ which originates with chart letter 539 of 1963. This item was investigated on day 161 (10 June). The shoalest depth found after Smooth corrections was a 62 foot sounding and no real indication of a wreck appears on fathograms. It is recommended that this wreck be retained on the chart and investigated by wire drag.

Item No. 36 - Sunken wreck charted at latitude 29° 34', longitude 81° 09'; wreck of the vessel NORTHWESTERN from Notice to Mariners No. 7 of 1956. This item was investigated on day 199. The shoalest depth found was a 50 foot sounding. It is recommended that the wreck symbol be retained as charted pending wice-drag investigation.

Item No. (34) - The 28 foot sounding charted at latitude 29° 46.70', longitude 81° 14.00' originates with Notice to Mariners No. 33 of 1920. This item was not developed during current survey. There are three lines approximately 100 meters apart that cover this item. The shoalest depth found is 43 feet. Recommend this 28 foot sounding be retained as charted.

Item No. 32 - Underwater spring at latitude 29° 46.10', longitude 81° 12.49' is charted from H-4299 (1923). This item was investigated on current survey on day 211. The spring appears to be roughly the same size with a maximum depth of 140 feet. An enlargement was made and included in Descriptive Report. The deep was plotted on smooth sheet at position number 3799.

Dashed Circle Item - The 48 foot depth at latitude 29° 47.4', longitude 81° 04.5' was investigated on day 180. The investigation appears to be north of the 48 foot sounding; however, a 50 foot sounding was found between positions 6594 and 6595. It is recommended that the 48 foot sounding be retained as charted.

46-49 ft. deeths food to the north that the

4. Condition of the Survey

The sounding records, automated plotting and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual, supplemented by the Atlantic Marine Center Manual.

5. Junctions

Junctions were made with the following surveys: H-9456 - AHP-40-3-74 The (1974), H-9367 - MI-80-1-73 (1973), and H-9371 - AHP-40-1-74 (1974). No junction was made with H-8937 (HY-80-2-66) during quality control imprection.

The junctions with H-9456 (AHP-40-3-74) and H-9367 (MI-80-1-73) were the two sheets that join H-9455 (AHP-40-2-74) to the north. These junctions were made with good agreement. The junction to the south with H-9371 (AHP-40-1-74) could only be made as a butt junction. To do this one line was deleted from H-9455 (AHP-40-2-74); positions 5 through 33, day 107, Launch 1255. It appears that there were problems with control that were not resolved in the field nor could they be resolved during verification. With the deletion of this line the junction becomes satisfactory.

6. Comparisons

A. Prior Surveys: Comparisons were made with five prior surveys; H-3964 (1917), H-4294 (1923), H-4299 (1923), H-4300 (1923) and H-4435 (1924). The agreement between these surveys and the present survey indicates a difference of \$\frac{1}{2}\$ to 3 feet in most cases. The present survey is adequate to supersede these prior surveys within the common area.

Surveys that were not compared were H-1047 (1870), H-1148A and B (1872), H-1266 (1875), H-1365 (1876-77), and H-4377 (1924). Recommend using the present survey to update the 60 foot curve in isolated cases and to resolve differences listed as Pre-survey Review Items.

- B. Published Charts: This survey was compared with published chart C&GS 1244 (No. 11205), 6th edition, dated August 4, 1973.
 - (a) Hydrography: Most of the charted hydrography originates with prior surveys H-4299 (1923) and H-4294 (1923) previously discussed, which requires no further consideration.
 - (b) Attention is directed to the following: A wreck charted at approximate latitude 29° 46.9', longitude 81° 15.1' was not investigated on the current survey. Recommend retaining this feature.
 - (c) Aids to Navigation: There are no aids to navigation on this survey.

7. Compliance With Instructions

This survey adequately complies with the Project Instructions.

8. Additional Field Work

This is an excellent basic survey. Additional hydrographic field work is not recommended; however, the wrecks and/or obstructions of this area should be wire dragged to prove or disprove their existance.

9. Hydrographic Inspection Team Comments

Hydrographic Inspection Team comments are included within this report and Verification deficiencies found, if any, have been corrected on the Smooth Sheet.

Approval Sheet for Survey H-9455

Examined and Approved: Hydrographic Inspection Team Date: 13 may 1976

Chief, Operations Division

C. Dale North, Jr., LCDR, NOAA Chief, Processing Division

Coastal Mapping Division

Chief, Verification Branch

Approved/Forwarded

Robert C. Munson

RADM, NOAA

Director, Atlantic Marine Center



UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY

Rockville, Md. 20852

C352

July 23, 1976

T0:

Chief. Marine Surveys Division

THRU:

Chief, Qualify Control Branch

FROM:

D. J. Romesburg

r D.J. Romealung Quality Evaluator

Quality Control Report, H-9455 (1974), Florida, East Coast of SUBJECT:

Florida, Vicinity of Matanzas Inlet

A quality control inspection of H-9455 (1974) has been accomplished to evaluate the accuracy and adequacy of the survey with respect to data acquisition, delineation of the bottom, determination of least depths, navigational hazards, junctions, shoreline transfer, decisions and actions taken by the verifier and cartographic presentation of data.

The following deficiencies are noted:

- The junction with H-8937 (1966) on the east was not made by the verifier but was accomplished during quality control inspection.
- Several depths were revised to obtain depth curve agreement with H-9371 (1974) on the south. One sounding from a rejected line of hydrography on the present survey was erroneously inked on the smooth sheet as a junctional sounding from H-9371 (1974).
- 3. Several soundings were brought forward from prior survey H-4294 (1923) to help delineate the inshore areas.
- 4. Prior surveys H-4377 (1924) 1:40,000 and H-4434 (1924) 1:100,000 were omitted from section 6A, Comparision with Prior Surveys, in the verifier's report. These surveys were compared with the present survey during quality control inspection. No major differences were found and the present survey is adequate to supersede the prior surveys within the common area.

The 51 charted from H-4299 (1923) in latitude 29°41.0', longitude 81°08.2' falls in depths of 63 feet on the present survey. Investigation of this area discredits the existence of a feature in this locality and the 51 should be disregarded.





H-9455

The 60 charted from H-4299 in latitude 29°41.5', longitude 81°06.4' falls in present depths of 65-66 feet and is considered disproved by the present development.

- 5. A wreck was carried forward to the present survey from prior survey H-4294 (1923) in latitude 29°46.93', longitude 81°15.13'. Another wreck located on this prior survey in latitude 29°35.6', longitude 81°10.6' was verified on the present survey during quality control inspection. Traces of this wreck to 14 feet were found on the fathograms for Julian Days 193 and 199. The hydrographer made no determination of the least depth on the wreck, however.
- 6. No statement was made in the verifier's report to indicate that the present survey was adequate to supersede the charted hydrography, thereby necessitating an additional chart comparison be made during quality control inspection. In addition, the largest scale chart in the survey area, chart 11485 (843-SC), was not included under section 6B, Comparison with Charts. Numerous features 2-5 feet shoaler than charted depths were found on the present survey.

Together with the features listed in section 3D of the verifier's report, the two wrecks charted at latitude 29°46.93', longitude 81°15.13' and latitude 29°35.6', longitude 81°10.6' should be retained on the chart.

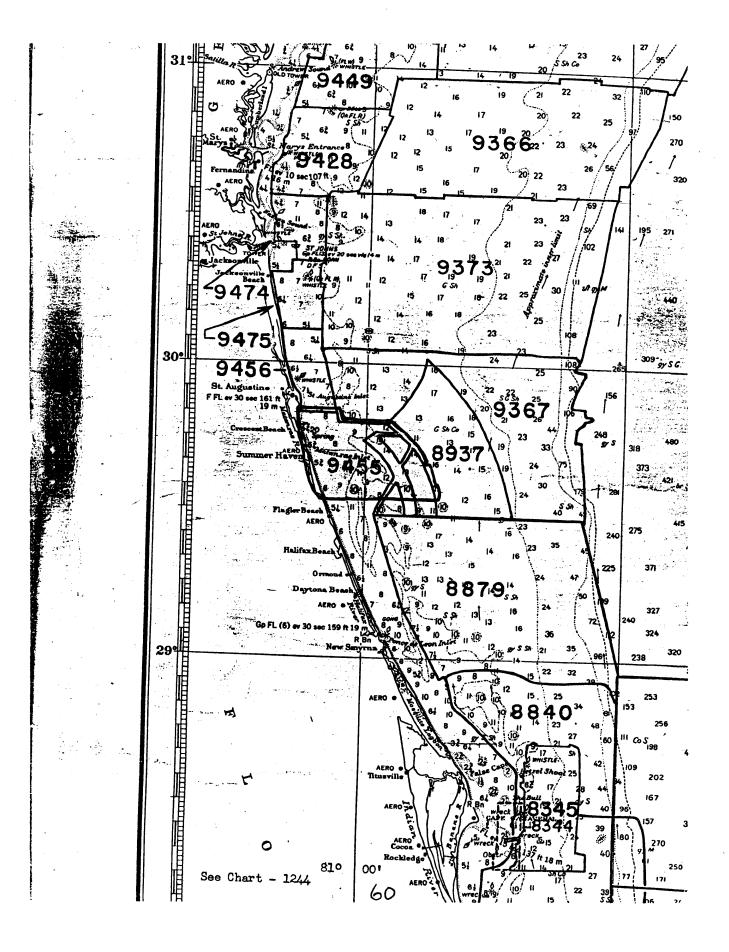
The 28 depth charted in latitude 29°46.70', longitude 81°14.05' was described in the verifier's report for H-4294 (1923) as a wreck reported in Notice to Mariners No. 33 of 1920. It is recommended that the charts reflect the pertinent information.

A wire-drag investigation of this charted wreck should be accomplished.

The Review Report for shoreline manuscript TP-00663 states that the pier and pier ruins charted in the vicinity of latitude 29°40.25', longitude 81°12.75' on chart 1244 do not exist.

Except for the revisions and retention of the items noted above, the present survey is adequate to supersede the charted hydrography within the common area.

cc: C351



NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
11485	5 Hund TT	Dex Radicharich	Full Part Before After Verification Review Inspection Signed Via
(\$43 <u>A</u>)			Drawing No.
(,		
1744	11/4/77	JAY SHERIMAN	Full Part Before After Verification Review Inspection Signed Via
127 1	1771		Drawing No. (PART THRU 843 & FES)
			V me
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// 13	ola da	0 10.1	Full Part Before After Verification Review Inspection Signed Via
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<u> 411</u>	4-8-92	Ken Forster	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 63 Exam -11/c - Scale
			Full Part Before After Verification Review Inspection Signed Via
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			Full Part Before After Verification Review Inspection Signed Via
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